

#2



OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/829,495

DATE: 04/30/2002

TIME: 10:06:52

Input Set : A:\7853234999.app

Output Set: N:\CRF3\04302002\I829495.raw

ENTERED

4 <110> APPLICANT: Busfield SJ
 5 Villeval J
 6 Jandrot-Perrus M
 7 Vainchenker W
 8 Gill DS
 9 Qian MD
 11 <120> TITLE OF INVENTION: GLYCOPROTEIN VI AND USES THEREOF
 13 <130> FILE REFERENCE: 7853-234
 15 <140> CURRENT APPLICATION NUMBER: 09/829,495
 16 <141> CURRENT FILING DATE: 2001-04-09
 18 <150> PRIOR APPLICATION NUMBER: 09/610,118
 19 <151> PRIOR FILING DATE: 2000-06-30
 21 <150> PRIOR APPLICATION NUMBER: 09/503,387
 22 <151> PRIOR FILING DATE: 2000-02-14
 24 <150> PRIOR APPLICATION NUMBER: 09/454,824
 25 <151> PRIOR FILING DATE: 1999-12-06
 27 <150> PRIOR APPLICATION NUMBER: 09/345,468
 28 <151> PRIOR FILING DATE: 1999-06-30
 30 <160> NUMBER OF SEQ ID NOS: 78
 32 <170> SOFTWARE: FastSEQ for Windows Version 3.0
 34 <210> SEQ ID NO: 1
 35 <211> LENGTH: 2047
 36 <212> TYPE: DNA
 37 <213> ORGANISM: Homo sapiens
 39 <400> SEQUENCE: 1

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40 ggagtcgacc cagcgctccg cagggctgag gaaccatgtc tccatccccg accgccctct      60
41 tctgtcttgg gctgtgtctg gggcgtgtgc cagcgcagag tggaccgctc cccaagccct      120
42 ccctccaggc tctgccagc tccctggtgc ccctggagaa gccagtgacc ctccggtgcc      180
43 agggacctcc gggcgtggac ctgtaccgcc tggagaagct gagttccagc aggtaccagg      240
44 atcaggcagt cctcttcac cgggccatga agagaagtct ggctggacgc taccgctgct      300
45 cctaccagaa cggaagcctc tggtcacctg ccagcgacca gctggagctc gttgccacgg      360
46 gagtttttgc caaacctctg ctctcagccc agcccggccc ggcggtgtcg tcaggagggg      420
47 acgtaaccct acagtgtcag actcgggtatg gctttgacca atttgctctg tacaaggaag      480
48 gggaccctgc gccctacaag aatcccagaga gatggtaccg ggctagtttc cccatcatca      540
49 cggtgaccgc cgcccacagc ggaacctacc gatgctacag cttctccagc agggaccat      600
50 acctgtggtc ggccccagc gaccccctgg agcttggtgg cacaggaacc tctgtgacct      660
51 ccagccggtt accaacagaa ccaccttctc cggtagcaga attctcagaa gccaccgctg      720
52 aactgaccgt ctcatcaca aacaaagtct tcacaactga gacttctagg agtatcacca      780
53 ccagtcctaaa ggagtgcagac tctccagctg gtccctgccc ccagtactac accaagggca      840
54 acctggtccg gatattgcctc ggggctgtga tcctaataat cctggcgggg tttctggcag      900
55 aggaactggc cagccggagg aagcgcctgc ggcacagggg cagggctgtg cagaggccgc      960
56 ttccgccccct gccgcccctc ccgcagacct ggaaatcaca cgggggtcag gatggaggcc     1020
57 gacaggatgt tcacagccgc gggttatggt catgaccgct gaaccccagg cacggtcgta     1080

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58 tccaagggag ggatcatggc atgggaggcg actcaaagac tggcgtgtgt ggagcgtgga 1140
59 agcaggaggg cagaggctac agctgtggaa acgaggccat gctgcctcct cctggtgttc 1200
60 catcaggagg ccgttcggcc agtgtctgtc tgtctgtctg cctctctgtc tgagggcacc 1260
61 ctccatttgg gatggaagga atctgtggag accccatcct cctccctgca cactgtggat 1320
62 gacatggtac cctggctgga ccacatactg gcctctttct tcaacctctc taatatgggc 1380
63 tccagacgga tctctaaggt tcccagctct caggggtgac tctgttccat cctctgtgca 1440
64 aaatcctcct gtgcttccct ttggccctct gtgctcttgt ctggttttcc ccagaaactc 1500
65 tcacctcac tccatctccc actgcggtct acaaaatctc ctttcgtctc tcagaacggg 1560
66 tcttgaggc agtttgggta tgtcattcat tttccttagt gtaaaactag cacgttgccc 1620
67 gcttcccttc acattagaaa acaagatcag cctgtgcaac atggtgaaac ctcatctcta 1680
68 ccaacaaaac aaaaaaacac aaaaattagc caggtgtggt ggtgcatccc tatactccca 1740
69 gcaactcggg gggctgaggt gggagaatgg cttgagcctg ggaggcagag gttgcagtga 1800
70 gctgagatca caccactgca ctctagctcg ggtgacgaag cctgacctg tctcaaaaaa 1860
71 tacagggatg aatatgtcaa ttaccctgat ttgatcatag cacgttgtat acatgtactg 1920
72 caatattgct gtccacccca taaatatgta caattatgta tacattttta aaatcataaa 1980
73 aataagataa tgaaaaaaa aaaaaaaaa aaaaaaaggg cgggccgcta gactagtcta 2040
74 gagaaca 2047

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76 <210> SEQ ID NO: 2

77 <211> LENGTH: 1017

78 <212> TYPE: DNA

79 <213> ORGANISM: Homo sapiens

81 <400> SEQUENCE: 2

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82 atgtctccat ccccgaccgc cctcttctgt cttgggctgt gtctggggcg tgtgccagcg 60
83 cagagtggac cgctcccaaa gccctccctc caggetctgc ccagctccct ggtgcccctg 120
84 gagaagccag tgacctccg gtgccaggga cctccggcg tgacctgta ccgcctggag 180
85 aagctgagtt ccagcaggtta ccagatcag gcagtcctct tcatcccggc catgaagaga 240
86 agtctggctg gacgtaccg ctgctcctac cagaacggaa gcctctggtc cctgccagc 300
87 gaccagctgg agctcgttgc caggggagtt tttgccaaac cctcgctctc agcccagccc 360
88 ggcccggcgg tgtcgtcagg aggggacgta accctacagt gtcagactcg gtatggcttt 420
89 gaccaatttg ctctgtacaa ggaaggggac cctgcgcctt acaagaatcc cgagagatgg 480
90 taccgggcta gtttcccat catcacggtg accgcgcgcc acagcggaac ctaccgatgc 540
91 tacagcttct ccagcaggtta ccataacctg tggtcggccc ccagcgacct cctggagctt 600
92 gtggtcacag gaacctctgt gacccccagc cggttaccaa cagaaccacc ttcctcggtta 660
93 gcagaattct cagaagccac cgctgaactg accgtctcat tcacaaacaa agtcttcaca 720
94 actgagactt ctaggagtat caccaccagt ccaaaggagt cagactctcc agctggtcct 780
95 gcccgccagt actacaccaa gggcaacctg gtccggatat gcctcggggc tgtgatccta 840
96 ataatcctgg cggggtttct ggcagaggac tggcacagcc ggaggaagcg cctgcggcac 900
97 aggggcaggg ctgtgcagag gccgcttccg cccctgcgcg ccctcccgca gaccggaaa 960
98 tcacacgggg gtcaggatgg agggcgacag gatgttcaca gccgcggggt atgttca 1017

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100 <210> SEQ ID NO: 3

101 <211> LENGTH: 339

102 <212> TYPE: PRT

103 <213> ORGANISM: Homo sapiens

105 <400> SEQUENCE: 3

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106 Met Ser Pro Ser Thr Ala Leu Phe Cys Leu Gly Leu Cys Leu Gly
107 1 5 10 15
108 Arg Val Pro Ala Gln Ser Gly Pro Leu Pro Lys Pro Ser Leu Gln Ala
109 20 25 30
110 Leu Pro Ser Ser Leu Val Pro Leu Glu Lys Pro Val Thr Leu Arg Cys

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111          35          40          45
112  Gln Gly Pro Pro Gly Val Asp Leu Tyr Arg Leu Glu Lys Leu Ser Ser
113          50          55          60
114  Ser Arg Tyr Gln Asp Gln Ala Val Leu Phe Ile Pro Ala Met Lys Arg
115  65          70          75          80
116  Ser Leu Ala Gly Arg Tyr Arg Cys Ser Tyr Gln Asn Gly Ser Leu Trp
117          85          90          95
118  Ser Leu Pro Ser Asp Gln Leu Glu Leu Val Ala Thr Gly Val Phe Ala
119          100          105          110
120  Lys Pro Ser Leu Ser Ala Gln Pro Gly Pro Ala Val Ser Ser Gly Gly
121          115          120          125
122  Asp Val Thr Leu Gln Cys Gln Thr Arg Tyr Gly Phe Asp Gln Phe Ala
123          130          135          140
124  Leu Tyr Lys Glu Gly Asp Pro Ala Pro Tyr Lys Asn Pro Glu Arg Trp
125          145          150          155          160
126  Tyr Arg Ala Ser Phe Pro Ile Ile Thr Val Thr Ala Ala His Ser Gly
127          165          170          175
128  Thr Tyr Arg Cys Tyr Ser Phe Ser Ser Arg Asp Pro Tyr Leu Trp Ser
129          180          185          190
130  Ala Pro Ser Asp Pro Leu Glu Leu Val Val Thr Gly Thr Ser Val Thr
131          195          200          205
132  Pro Ser Arg Leu Pro Thr Glu Pro Pro Ser Ser Val Ala Glu Phe Ser
133          210          215          220
134  Glu Ala Thr Ala Glu Leu Thr Val Ser Phe Thr Asn Lys Val Phe Thr
135          225          230          235          240
136  Thr Glu Thr Ser Arg Ser Ile Thr Thr Ser Pro Lys Glu Ser Asp Ser
137          245          250          255
138  Pro Ala Gly Pro Ala Arg Gln Tyr Tyr Thr Lys Gly Asn Leu Val Arg
139          260          265          270
140  Ile Cys Leu Gly Ala Val Ile Leu Ile Ile Leu Ala Gly Phe Leu Ala
141          275          280          285
142  Glu Asp Trp His Ser Arg Arg Lys Arg Leu Arg His Arg Gly Arg Ala
143          290          295          300
144  Val Gln Arg Pro Leu Pro Pro Leu Pro Pro Leu Pro Gln Thr Arg Lys
145          305          310          315          320
146  Ser His Gly Gly Gln Asp Gly Gly Arg Gln Asp Val His Ser Arg Gly
147          325          330          335
148  Leu Cys Ser
151 <210> SEQ ID NO: 4
152 <211> LENGTH: 20
153 <212> TYPE: PRT
154 <213> ORGANISM: Homo sapiens
156 <400> SEQUENCE: 4
157  Met Ser Pro Ser Pro Thr Ala Leu Phe Cys Leu Gly Leu Cys Leu Gly
158    1          5          10          15
159  Arg Val Pro Ala
160          20
162 <210> SEQ ID NO: 5
163 <211> LENGTH: 319

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164 <212> TYPE: PRT
165 <213> ORGANISM: Homo sapiens
167 <400> SEQUENCE: 5
168 Gln Ser Gly Pro Leu Pro Lys Pro Ser Leu Gln Ala Leu Pro Ser Ser
169 1 5 10 15
170 Leu Val Pro Leu Glu Lys Pro Val Thr Leu Arg Cys Gln Gly Pro Pro
171 20 25 30
172 Gly Val Asp Leu Tyr Arg Leu Glu Lys Leu Ser Ser Ser Arg Tyr Gln
173 35 40 45
174 Asp Gln Ala Val Leu Phe Ile Pro Ala Met Lys Arg Ser Leu Ala Gly
175 50 55 60
176 Arg Tyr Arg Cys Ser Tyr Gln Asn Gly Ser Leu Trp Ser Leu Pro Ser
177 65 70 75 80
178 Asp Gln Leu Glu Leu Val Ala Thr Gly Val Phe Ala Lys Pro Ser Leu
179 85 90 95
180 Ser Ala Gln Pro Gly Pro Ala Val Ser Ser Gly Gly Asp Val Thr Leu
181 100 105 110
182 Gln Cys Gln Thr Arg Tyr Gly Phe Asp Gln Phe Ala Leu Tyr Lys Glu
183 115 120 125
184 Gly Asp Pro Ala Pro Tyr Lys Asn Pro Glu Arg Trp Tyr Arg Ala Ser
185 130 135 140
186 Phe Pro Ile Ile Thr Val Thr Ala Ala His Ser Gly Thr Tyr Arg Cys
187 145 150 155 160
188 Tyr Ser Phe Ser Ser Arg Asp Pro Tyr Leu Trp Ser Ala Pro Ser Asp
189 165 170 175
190 Pro Leu Glu Leu Val Val Thr Gly Thr Ser Val Thr Pro Ser Arg Leu
191 180 185 190
192 Pro Thr Glu Pro Pro Ser Ser Val Ala Glu Phe Ser Glu Ala Thr Ala
193 195 200 205
194 Glu Leu Thr Val Ser Phe Thr Asn Lys Val Phe Thr Thr Glu Thr Ser
195 210 215 220
196 Arg Ser Ile Thr Thr Ser Pro Lys Glu Ser Asp Ser Pro Ala Gly Pro
197 225 230 235 240
198 Ala Arg Gln Tyr Tyr Thr Lys Gly Asn Leu Val Arg Ile Cys Leu Gly
199 245 250 255
200 Ala Val Ile Leu Ile Ile Leu Ala Gly Phe Leu Ala Glu Asp Trp His
201 260 265 270
202 Ser Arg Arg Lys Arg Leu Arg His Arg Gly Arg Ala Val Gln Arg Pro
203 275 280 285
204 Leu Pro Pro Leu Pro Pro Leu Pro Gln Thr Arg Lys Ser His Gly Gly
205 290 295 300
206 Gln Asp Gly Gly Arg Gln Asp Val His Ser Arg Gly Leu Cys Ser
207 305 310 315
209 <210> SEQ ID NO: 6
210 <211> LENGTH: 41
211 <212> TYPE: PRT
212 <213> ORGANISM: Homo sapiens
214 <400> SEQUENCE: 6
215 Cys Gln Gly Pro Pro Gly Val Asp Leu Tyr Arg Leu Glu Lys Leu Ser

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216      1              5              10              15
217  Ser Ser Arg Tyr Gln Asp Gln Ala Val Leu Phe Ile Pro Ala Met Lys
218              20              25              30
219  Arg Ser Leu Ala Gly Arg Tyr Arg Cys
220              35              40
222 <210> SEQ ID NO: 7
223 <211> LENGTH: 47
224 <212> TYPE: PRT
225 <213> ORGANISM: Homo sapiens
227 <400> SEQUENCE: 7
228  Cys Gln Thr Arg Tyr Gly Phe Asp Gln Phe Ala Leu Tyr Lys Glu Gly
229      1              5              10              15
230  Asp Pro Ala Pro Tyr Lys Asn Pro Glu Arg Trp Tyr Arg Ala Ser Phe
231              20              25              30
232  Pro Ile Ile Thr Val Thr Ala Ala His Ser Gly Thr Tyr Arg Cys
233              35              40              45
235 <210> SEQ ID NO: 8
236 <211> LENGTH: 19
237 <212> TYPE: PRT
238 <213> ORGANISM: Homo sapiens
240 <400> SEQUENCE: 8
241  Leu Val Arg Ile Cys Leu Gly Ala Val Ile Leu Ile Ile Leu Ala Gly
242      1              5              10              15
243  Phe Leu Ala
246 <210> SEQ ID NO: 9
247 <211> LENGTH: 249
248 <212> TYPE: PRT
249 <213> ORGANISM: Homo sapiens
251 <400> SEQUENCE: 9
252  Gln Ser Gly Pro Leu Pro Lys Pro Ser Leu Gln Ala Leu Pro Ser Ser
253      1              5              10              15
254  Leu Val Pro Leu Glu Lys Pro Val Thr Leu Arg Cys Gln Gly Pro Pro
255              20              25              30
256  Gly Val Asp Leu Tyr Arg Leu Glu Lys Leu Ser Ser Ser Arg Tyr Gln
257              35              40              45
258  Asp Gln Ala Val Leu Phe Ile Pro Ala Met Lys Arg Ser Leu Ala Gly
259              50              55              60
260  Arg Tyr Arg Cys Ser Tyr Gln Asn Gly Ser Leu Trp Ser Leu Pro Ser
261      65              70              75              80
262  Asp Gln Leu Glu Leu Val Ala Thr Gly Val Phe Ala Lys Pro Ser Leu
263              85              90              95
264  Ser Ala Gln Pro Gly Pro Ala Val Ser Ser Gly Gly Asp Val Thr Leu
265              100              105              110
266  Gln Cys Gln Thr Arg Tyr Gly Phe Asp Gln Phe Ala Leu Tyr Lys Glu
267              115              120              125
268  Gly Asp Pro Ala Pro Tyr Lys Asn Pro Glu Arg Trp Tyr Arg Ala Ser
269              130              135              140
270  Phe Pro Ile Ile Thr Val Thr Ala Ala His Ser Gly Thr Tyr Arg Cys
271      145              150              155              160

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VERIFICATION SUMMARY

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